

ABSTRACT

A hybrid power generation system for neutralizing contaminated air while generating power is disclosed. The system includes a generator, compressor, combustor, turbine, and recuperator defining an air/gas flow path. The system
5 includes a fuel cell module located along the air/gas fuel path, and a power controller. The power controller converts AC power generated by the generator to DC power on a DC bus for providing power to a load. The fuel cell module neutralizes air contaminates in the incoming air while generating power. The power controller regulates the air flow in the air/gas flow path to control the efficiency of
10 the fuel cell module, independent of the DC power on the DC bus.